

AN 2005:15686 CAPLUS
 DN 142:123721
 ED Entered STN: 07 Jan 2005
 TI Perylenetetracarboxylic acid dibenzimidazole sulfoderivatives containing
 oxo-groups in the perylene core which form part of a para-quinoid system
 of bonds, lyotropic liquid crystal systems and anisotropic films
 containing the same, and methods for making the same
 IN Sidorenko, Elena N.; Nazarov, Victor V.
 PA Russia
 SO U.S. Pat. Appl. Publ., 28 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM G02F001-1335
 ICS C09K019-02; C09K019-34; C07D471-14
 NCL 252299610; 349182000; 546031000; 546032000
 CC 75-11 (Crystallography and Liquid Crystals)
 Section cross-reference(s): 28, 73, 74
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005001202	A1	20050106	US 2004-833595	20040427
	WO 2005003132	A1	20050113	WO 2004-US20699	20040624
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW,				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,				
	SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				
	SN, TD, TG				
PRAI	US 2003-482779P	P	20030625		
	US 2004-833595	A	20040427		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	US 2005001202	ICM	G02F001-1335
		ICS	C09K019-02; C09K019-34; C07D471-14
		NCL	252299610; 349182000; 546031000; 546032000
AB	Anisotropic films are based on sulfoderivatives of perylenetetracarboxylic acid dibenzimidazole (PTCA DBI) which contain oxo groups pendant to a perylene core. The oxo-groups, in combination with portions of the perylene core, form a quinoid system of bonds. The oxo substituted PTCA DBI sulfoderivatives form liquid crystal systems possessing high optical properties. The liquid crystal systems can be applied onto various substrates to obtain optically isotropic or anisotropic, at least partially crystalline, films applicable in various fields.		
ST	perylene-tetracarboxylate dibenzimidazole sulfo deriv lyotropic liq crystal; optically anisotropic film perylenetetracarboxylate dibenzimidazole sulfoderiv lyotropic liq crystal		
IT	Liquid crystals (lyotropic; preparation of perylenetetracarboxylic acid dibenzimidazole sulfoderivatives and lyotropic liquid crystal systems based on them and optically anisotropic films formed from them)		
IT	Optical films Polarizing films (preparation of perylenetetracarboxylic acid dibenzimidazole sulfoderivatives and lyotropic liquid crystal systems based on them and optically anisotropic films formed from them)		
IT	Optical instruments (retarders; preparation of perylenetetracarboxylic acid dibenzimidazole		

sulfoderivatives and lyotropic liquid crystal systems based on them and optically anisotropic films formed from them)

IT 81-30-1D, reaction product with diaminobenzenesulfonic acid 7474-78-4D, 3,4-Diaminobenzenesulfonic acid, reaction product with naphthalenetetracarboxylic dianhydride 634615-88-6
 RL: NUU (Other use, unclassified); USES (Uses)
 (in lyotropic liquid crystals containing perylenetetracarboxylic acid dibenzimidazole sulfoderivatives and optical characteristics of films formed from them)

IT 784179-92-6P 820977-01-3P 820977-03-5P 820977-05-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidation and sulfonation of)

IT 784179-96-0P 784179-97-1P 820977-18-2P 820977-25-1P
 820977-26-2P 820977-28-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidation of)

IT 784179-90-4P 784179-91-5P 820976-73-6P 820976-80-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and sulfonation and oxidation of)

IT 784179-94-8P 784179-95-9P 784179-98-2P 820977-16-0P
 820977-30-8P 820977-32-0P 820977-37-5P 820977-38-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and sulfonation of)

IT 820976-86-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of perylenetetracarboxylic acid dibenzimidazole sulfoderivatives and lyotropic liquid crystal systems based on them and optically anisotropic films formed from them)

IT 820976-88-3P 820976-91-8P 820976-94-1P 820976-96-3P 820976-98-5P
 820977-20-6P 820977-22-8P 820977-34-2P 820977-35-3P 820977-40-0P
 820977-41-1P 820977-43-3P
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of perylenetetracarboxylic acid dibenzimidazole sulfoderivatives and lyotropic liquid crystal systems based on them and optically anisotropic films formed from them)

IT 95-54-5, o-Phenylenediamine, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction with mono and dihydroxyperylenetetracarboxylic acids)

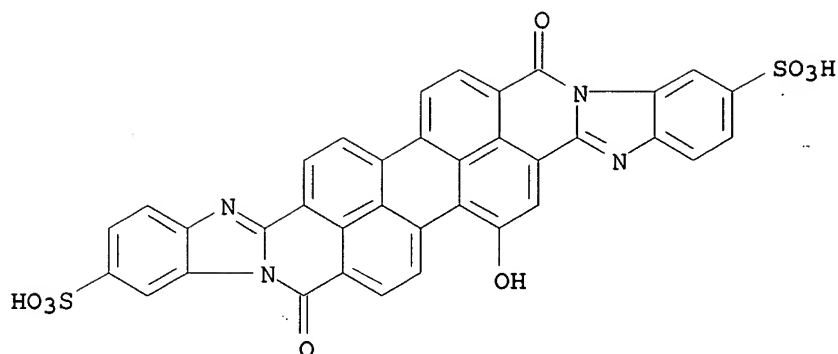
IT 7474-78-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction with monohydroxyperylenetetracarboxylic acid)

IT 170239-03-9 820977-15-9 820977-23-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction with phenylenediamine)

IT 784179-92-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidation and sulfonation of)

RN 784179-92-6 CAPLUS

CN Bisbenzimidazo[2,1-a:2',1'-a']anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-2,13-disulfonic acid, 10,21-dihydro-7-hydroxy-10,21-dioxo- (9CI) (CA INDEX NAME)

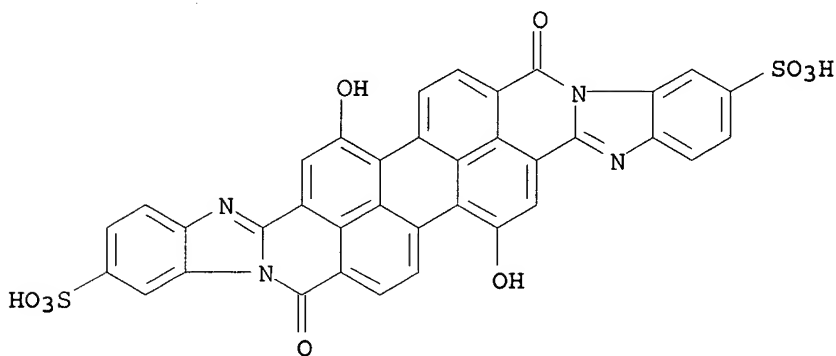


IT 784179-96-0P 784179-97-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

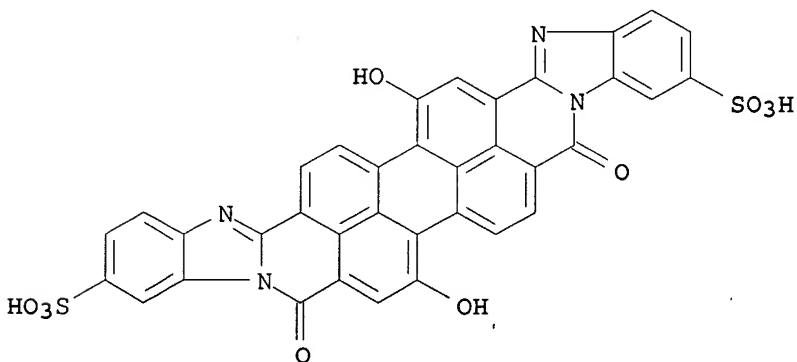
RN 784179-96-0 CAPLUS

CN Bisbenzimidazo[2,1-a:2',1'-a']anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-2,13-disulfonic acid, 10,21-dihydro-7,18-dihydroxy-10,21-dioxo- (9CI) (CA INDEX NAME)



RN 784179-97-1 CAPLUS

CN Bisbenzimidazo[2,1-a:1',2'-b']anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-3,14-disulfonic acid, 6,11-dihydro-8,19-dihydroxy-6,11-dioxo- (9CI) (CA INDEX NAME)



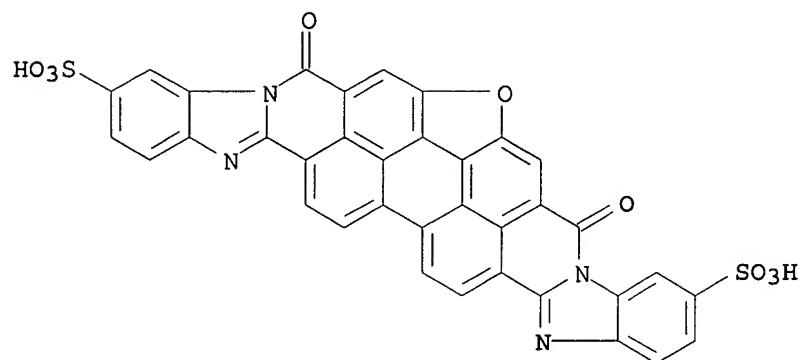
IT 784179-98-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and sulfonation of)

RN 784179-98-2 CAPLUS

CN Bisbenzimidazo[2,1-a:2',1'-a']furo[2',3',4',5':4,5]phenanthro[2,1,10-def:7,8,9-d'e'f']diisoquinoline-3,13-disulfonic acid, 6,10-dihydro-6,10-dioxo- (9CI) (CA INDEX NAME)

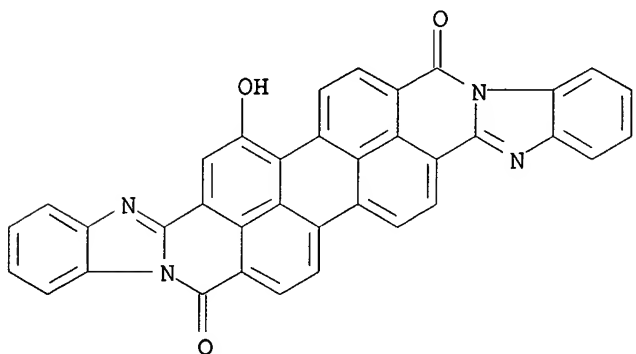


IT 784179-90-4P 784179-91-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and sulfonation and oxidation of)

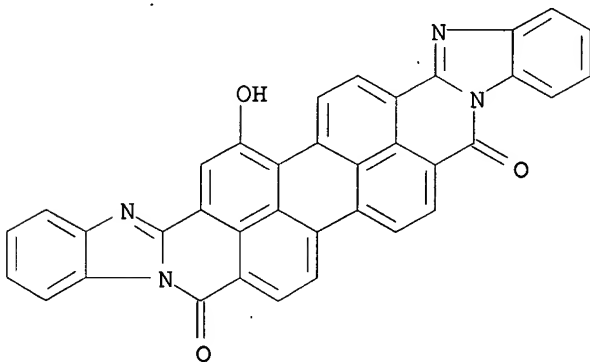
RN 784179-90-4 CAPLUS

CN Bisbenzimidazo[2,1-a:2',1'-a']anthra[2,1,9-def:6,5,10-
d'e'f']diisoquinoline-10,21-dione, 7-hydroxy- (9CI) (CA INDEX NAME)



RN 784179-91-5 CAPLUS

CN Bisbenzimidazo[2,1-a:1',2'-b']anthra[2,1,9-def:6,5,10-
d'e'f']diisoquinoline-6,11-dione, 19-hydroxy- (9CI) (CA INDEX NAME)

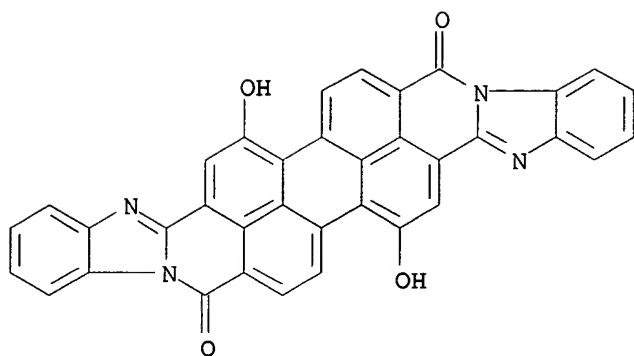


IT 784179-94-8P 784179-95-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and sulfonation of)

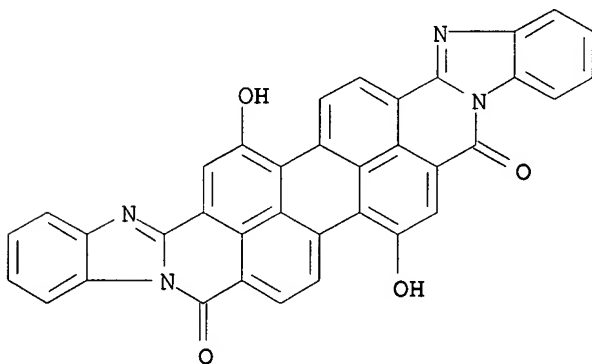
RN 784179-94-8 CAPLUS

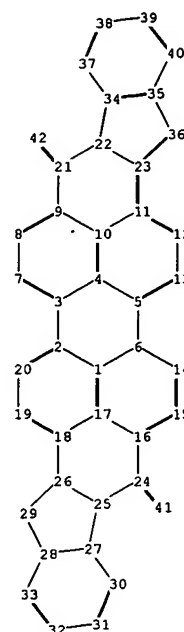
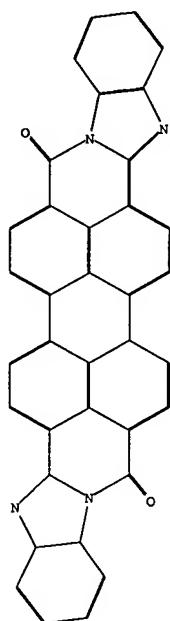
CN Bisbenzimidazo[2,1-a:2',1'-a']anthra[2,1,9-def:6,5,10-
d'e'f']diisoquinoline-10,21-dione, 7,18-dihydroxy- (9CI) (CA INDEX NAME)



RN 784179-95-9 CAPLUS

CN Bisbenzimidazo[2,1-a:1',2'-b']anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-6,11-dione, 8,19-dihydroxy- (9CI) (CA INDEX NAME)





chain nodes :

41 42

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

chain bonds :

21-42 24-41

ring bonds :

1-2 1-6 1-17 2-3 2-20 3-4 3-7 4-5 4-10 5-6 5-13 6-14 7-8 8-9
9-10 9-21 10-11 11-12 11-23 12-13 14-15 15-16 16-17 16-24 17-18
18-19 18-26 19-20 21-22 22-23 22-34 23-36 24-25 25-26 25-27 26-29
27-28 27-30 28-29 28-33 30-31 31-32 32-33 34-35 34-37 35-36 35-40
37-38 38-39 39-40

exact/norm bonds :

1-6 2-3 5-6 6-14 9-21 11-23 14-15 15-16 16-17 16-24 18-26 21-22
21-42 22-23 22-34 23-36 24-25 24-41 25-26 25-27 26-29 27-28 27-30
28-29 28-33 30-31 31-32 32-33 35-36

normalized bonds :

1-2 1-17 2-20 3-4 3-7 4-5 4-10 5-13 7-8 8-9 9-10 10-11 11-12
12-13 17-18 18-19 19-20 34-35 34-37 35-40 37-38 38-39 39-40

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom
26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom
34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:CLASS
42:CLASS

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:15686 CAPLUS
DN 142:123721

TI Perylenetetracarboxylic acid dibenzimidazole sulfoderivatives
containing oxo-groups in the perylene core which form part of a
para-quinoid system of bonds, lyotropic liquid crystal systems and
anisotropic films containing the same, and methods for making the same

IN Sidorenko, Elena N.; Nazarov, Victor V.

PA Russia

SO U.S. Pat. Appl. Publ., 28 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005001202	A1	20050106	US 2004-833595	20040427
	WO 2005003132	A1	20050113	WO 2004-US20699	20040624
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2003-482779P	P	20030625		
	US 2004-833595	A	20040427		

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:905683 CAPLUS
DN 141:386740

TI Lyotropic liquid crystal systems based on perylenetetracarboxylic acid
dibenzimidazole sulfoderivatives and optically anisotropic films
formed from them

IN Nazarov, Victor V.; Sidorenko, Elena N.

PA Russia

SO U.S. Pat. Appl. Publ., 26 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004215015	A1	20041028	US 2003-714057	20031114
	WO 2004096805	A2	20041111	WO 2004-US12919	20040426
	WO 2004096805	C2	20041216		
	WO 2004096805	A3	20050113		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2003-465657P	P	20030425		
	US 2003-714057	A	20031114		

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:753193 CAPLUS
 DN 141:279147
 TI Optionally acrylated water-thinnable polyester resin dispersions
 IN Reidlinger, Gerhard; Billiani, Johann; Jedlicka, Rudolf; Zrin, Ewald;
 Burkl, Julius; Scherz, Johannes
 PA Surface Specialities Austria G.m.b.h., Austria
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1457539	A1	20040915	EP 2004-5202	20040304
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	AT 200300392	A5	20040615	AT 2003-392	20030312
	AT 412347	B	20050125		
	US 2004181030	A1	20040916	US 2004-797940	20040311
PRAI	AT 2003-392	A	20030312		
RE.CNT	6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:252014 CAPLUS
 DN 140:294906
 TI Anisotropic films based on 1,8-naphthoylene-1',2'-benzimidazole sulfonates
 and lyotropic liquid crystal systems and methods for making
 IN Dutova, Tatyana Ya.; Sidorenko, Elena N.
 PA Russia
 SO U.S. Pat. Appl. Publ., 17 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004058091	A1	20040325	US 2003-601238	20030620
	WO 2004003599	A2	20040108	WO 2003-US20260	20030625
	WO 2004003599	A3	20040226		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	RU 2002-117253	A	20020628		
	US 2003-601238	A	20030620		
OS	MARPAT 140:294906				

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:989942 CAPLUS
 DN 140:50360
 TI Sulfoderivatives of indanthrone, lyotropic liquid crystal system
 and anisotropic film on their base
 IN Nazarov, Victor V.; Sidorenko, Elena N.
 PA Russia
 SO U.S. Pat. Appl. Publ., 14 pp.

CODEN: USXXCO

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003232153	A1	20031218	US 2002-455282 ✓	20030604
	WO 2003104242	A2	20031218	WO 2003-US18175	20030609
	WO 2003104242	A3	20040624		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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	EP 1513822	A2	20050316	EP 2003-734500	20030609
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI	RU 2002-114926	A	20020607		
	US 2003-455282	A	20030604		
	WO 2003-US18175	W	20030609		
OS	MARPAT 140:50360				

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:485736 CAPLUS

DN 139:69282

TI Anisotropic films based on **sulfoderivatives** of phenanthro-9',10':2,3-quinoxaline and lyotropic liquid crystal systems and method for making

IN Sidorenko, Elena N.; Dutova, Tatiana Ya.

PA Optiva, Inc., USA

SO U.S., 12 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6583284	B1	20030624	US 2002-300422	20021119
	WO 2004014874	A1	20040219	WO 2003-US24737	20030806
	WO 2004014874	C1	20040415		
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PRAI	US 2002-402026P	P	20020807		
OS	MARPAT 139:69282				

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
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AU Gamzazade, A. I.; Nasibov, S. M.; Rogozhin, S. V.
CS Institute of Food Substances, Russian Academy of Sciences, Moscow, 117813,
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